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- 5 -

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**ABSTRACT OF THE DISCLOSURE**

A method, apparatus, and computer program product for determining a drop probability for use in a congestion control module located in a node in a network is disclosed. A weight value for determining a weighted moving average of a queue in a node is first systematically calculated. The weighted moving average is calculating and an average queue size for the node is determined based upon the weighted moving average. A control function associated with the congestion control module is evaluated using the average queue size to determine the drop probability. In a further embodiment, the control function is calculated based upon a queue function where the queue function is calculated based upon predetermined system parameters. Thus, when the congestion control module drops packets based upon the drop probability determined by the control function the queue will not oscillate.